

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: NEO-RAY

Report Number: P332056-927

Luminaire Tested: **S123DIP-S1165D585U927-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332056-927
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-17,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123DIP-S1165D585U927-4F0-1E-UDD-A4
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1165 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 585 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5559.5 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: Semi-Direct

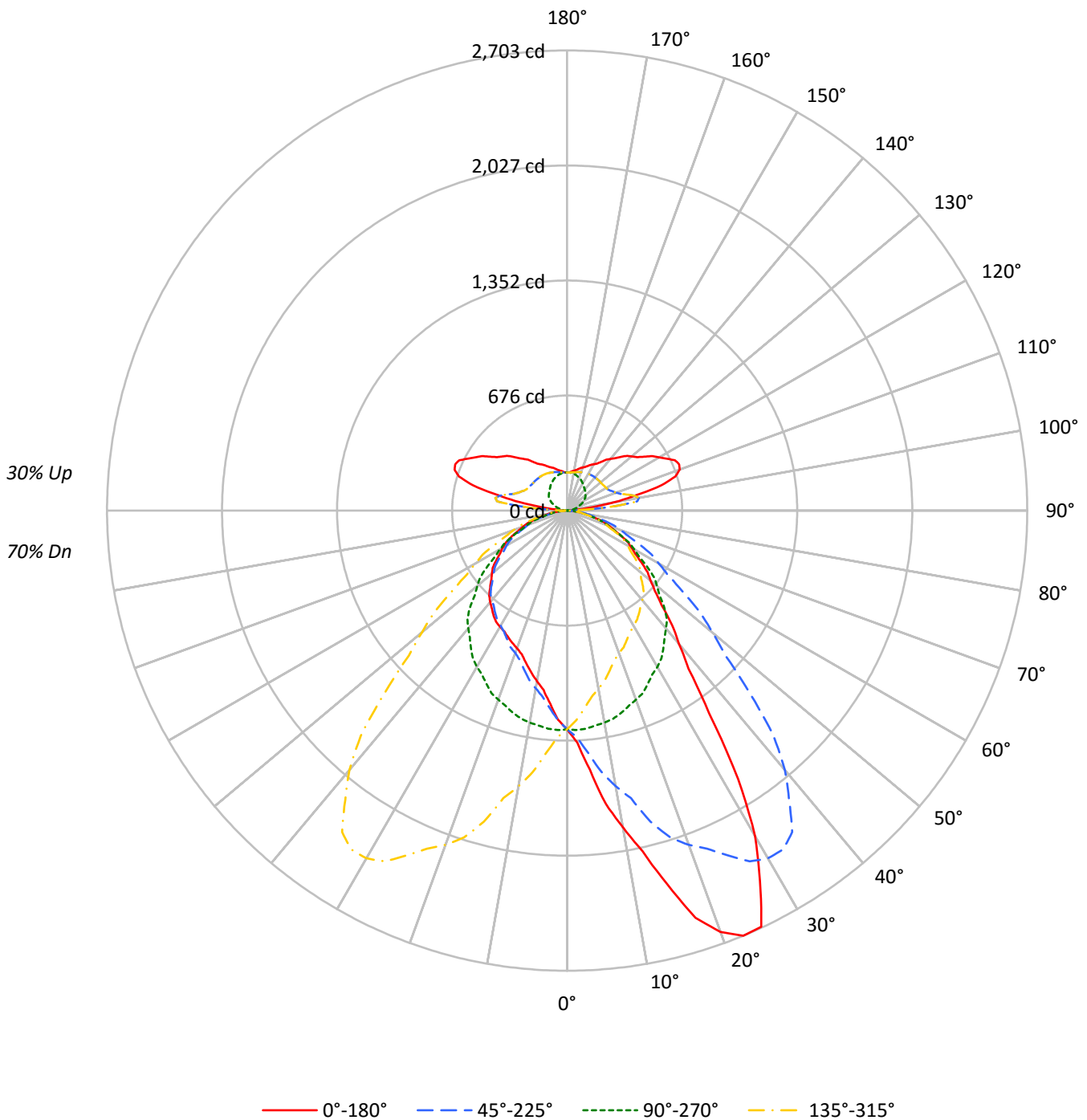
Input Watts (W): 55.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR	0	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74	74	74	74	74	74	70		
	1	103	98	94	91	97	93	90	87	83	81	78	75	73	71	66	65	64	64	64	64	64	64	60		
	2	94	86	80	75	88	82	76	72	74	69	66	66	63	60	59	56	54	54	54	54	54	54	50		
	3	86	76	69	63	81	72	66	60	65	60	56	59	54	51	52	49	46	46	46	46	46	46	43		
	4	79	68	60	54	74	64	57	52	58	52	48	52	48	44	47	43	40	40	40	40	40	40	37		
	5	72	61	52	46	68	58	50	45	52	46	41	47	42	38	42	38	35	35	35	35	35	35	32		
	6	67	55	46	40	63	52	44	39	47	41	36	43	38	34	39	34	31	31	31	31	31	31	29		
	7	62	49	41	36	58	47	40	34	43	37	32	39	34	30	35	31	28	28	28	28	28	28	25		
	8	58	45	37	32	54	43	36	31	39	33	29	36	31	27	32	28	25	25	25	25	25	25	23		
	9	54	41	34	28	51	39	32	27	36	30	26	33	28	24	30	26	23	23	23	23	23	23	21		
	10	50	38	30	26	48	36	29	25	33	27	23	30	25	22	28	24	20	20	20	20	20	20	19		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	13832	13832	13832	13832
5°	16495	13891	12310	13891
10°	20647	13821	11119	13821
15°	25324	13710	10351	13710
20°	30166	13536	9856	13536
25°	32033	13324	9745	13324
30°	27455	13170	9797	13170
35°	19094	12951	9900	12951
40°	14383	12694	9868	12694
45°	11942	12310	9742	12310
50°	10697	11531	9656	11531
55°	10001	10691	9533	10691
60°	9382	9810	9436	9810
65°	8818	8945	9133	8945
70°	8271	7956	8699	7956
75°	7407	6966	7977	6966
80°	6484	5709	6868	5709
85°	5076	4150	4619	4150



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.6	2.3
10°-20°	405.9	7.3
20°-30°	681.2	12.3
30°-40°	771.4	13.9
40°-50°	691.7	12.4
50°-60°	558.2	10.0
60°-70°	389.0	7.0
70°-80°	204.5	3.7
80°-90°	51.7	0.9
90°-100°	124.2	2.2
100°-110°	351.7	6.3
110°-120°	346.0	6.2
120°-130°	276.0	5.0
130°-140°	217.6	3.9
140°-150°	162.4	2.9
150°-160°	113.2	2.0
160°-170°	66.5	1.2
170°-180°	21.6	0.4
0°-30°	1213.7	21.8
0°-40°	1985.1	35.7
0°-60°	3235.0	58.2
0°-90°	3880.2	69.8
90°-120°	822.0	14.8
90°-150°	1478.0	26.6
90°-180°	1679.0	30.2
0°-180°	5559.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1285	1285	1285	1285	1285	
5°	1527	1286	1139	1286	1527	158
15°	2272	1230	929	1230	2272	656
25°	2697	1122	820	1122	2697	1183
35°	1453	986	753	986	1453	944
45°	784	809	640	809	784	621
55°	533	570	508	570	533	478
65°	346	351	359	351	346	345
75°	178	168	192	168	178	191
85°	41	34	37	34	41	49
90°	13	1	13	1	13	9
95°	52	15	52	15	52	94
105°	575	52	575	52	575	567
115°	699	93	699	93	699	679
125°	551	129	551	129	551	500
135°	447	151	447	151	447	347
145°	349	172	349	172	349	222
155°	290	196	290	196	290	135
165°	252	214	252	214	252	72
175°	227	223	227	223	227	22
180°	223	223	223	223	223	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0
2.5°	1363.7	1362.7	1360.3	1362.2	1358.3	1352.7	1352.3	1347.3	1332.8	1331.8	1327.9
5°	1526.6	1521.6	1521.0	1520.4	1511.6	1499.8	1477.4	1475.5	1445.7	1430.7	1412.7
7.5°	1737.5	1740.1	1731.1	1723.1	1696.5	1678.9	1654.9	1624.1	1587.4	1550.1	1525.3
10°	1889.0	1909.5	1884.0	1866.5	1850.4	1819.8	1784.4	1740.1	1695.9	1644.3	1605.0
12.5°	2051.4	2061.4	2056.3	2039.9	2014.7	1968.3	1905.4	1856.7	1816.0	1730.0	1695.2
15°	2272.5	2310.5	2286.2	2230.2	2231.3	2187.1	2105.0	2014.7	1966.8	1891.4	1788.7
17.5°	2508.0	2512.8	2502.4	2455.8	2424.6	2363.9	2288.1	2201.5	2104.4	2013.3	1904.2
20°	2633.5	2629.8	2608.0	2583.8	2530.2	2482.9	2400.1	2303.6	2179.1	2089.5	1970.5
22.5°	2703.3	2697.1	2686.8	2666.4	2621.9	2571.0	2496.7	2391.3	2272.7	2149.2	2011.8
25°	2697.1	2705.1	2706.4	2700.8	2685.3	2654.8	2596.2	2512.2	2393.9	2235.1	2091.9
27.5°	2453.0	2464.5	2497.8	2527.2	2560.3	2593.8	2589.3	2547.7	2460.1	2323.0	2147.9
30°	2208.9	2184.0	2245.7	2323.5	2376.5	2469.8	2522.1	2525.2	2476.0	2358.4	2187.8
32.5°	1870.3	1897.7	1924.9	2020.7	2136.4	2241.2	2345.3	2429.1	2438.7	2360.4	2211.2
35°	1453.1	1487.4	1537.2	1587.0	1711.5	1818.6	2001.6	2161.0	2288.1	2304.9	2213.3
37.5°	1171.0	1187.9	1219.4	1269.3	1350.8	1477.8	1619.4	1820.8	2004.9	2141.7	2147.7
40°	1023.6	1028.5	1064.0	1102.0	1168.0	1272.6	1400.2	1578.3	1798.6	1989.8	2069.5
42.5°	913.0	923.9	939.0	975.5	1028.0	1106.8	1225.4	1372.5	1574.5	1794.5	1950.4
45°	784.5	796.9	806.3	830.5	867.9	920.8	1003.6	1138.1	1291.9	1519.1	1728.9
47.5°	699.6	700.5	707.5	725.8	751.2	790.9	849.5	935.9	1077.1	1261.4	1476.8
50°	638.8	648.7	651.3	665.5	685.5	714.7	763.3	836.8	952.6	1114.4	1312.4
52.5°	596.0	599.0	605.9	616.2	633.7	656.5	698.5	756.1	847.0	984.9	1167.0
55°	532.9	532.9	539.8	547.9	557.9	578.4	606.4	648.7	717.9	824.9	975.6
57.5°	474.7	477.8	482.6	485.1	493.6	507.2	530.6	562.7	614.3	696.6	816.5
60°	435.8	441.4	440.8	445.8	453.3	463.8	483.8	509.9	556.0	621.9	722.9
62.5°	402.0	401.6	401.5	407.4	414.9	425.0	437.9	460.6	499.7	558.3	644.1
65°	346.2	344.9	349.3	353.0	355.5	363.0	373.0	392.8	419.0	462.6	529.2
67.5°	296.6	293.0	295.3	296.6	300.9	306.7	316.0	328.4	349.1	384.1	434.4
70°	262.8	259.6	259.0	260.2	264.0	268.3	275.2	287.0	306.3	334.3	371.1
72.5°	227.8	225.8	225.6	228.4	230.1	233.0	237.8	248.7	264.0	285.0	319.2
75°	178.1	178.1	178.1	178.7	180.5	183.1	186.8	192.3	204.2	219.1	242.2
77.5°	133.5	133.3	132.6	132.5	135.2	136.3	137.2	142.4	149.0	159.1	175.9
80°	104.6	101.5	102.7	104.6	105.8	106.5	108.4	109.6	115.2	120.8	132.6
82.5°	77.7	75.1	75.3	78.2	78.4	79.1	81.0	82.7	84.8	89.9	96.3
85°	41.1	41.1	41.7	41.7	42.3	41.7	43.6	44.2	44.2	47.3	51.0
87.5°	17.6	16.6	17.0	17.5	17.0	17.3	17.8	18.2	18.6	19.2	19.4
90°	13.1	13.5	13.1	12.7	13.1	12.2	11.7	11.3	10.9	11.3	9.9
92.5°	21.8	22.6	22.1	23.5	24.3	26.7	30.2	38.0	52.4	69.5	76.4
95°	52.4	54.2	57.4	61.5	70.0	86.3	110.3	162.6	217.3	267.9	238.6
97.5°	142.7	146.6	158.8	179.1	212.5	266.5	324.8	405.5	444.3	415.3	304.0
100°	283.3	282.9	300.5	333.4	379.1	443.2	496.1	532.7	516.9	427.9	289.1
102.5°	415.6	426.0	440.7	466.8	502.3	543.0	573.9	575.0	520.5	404.4	267.5
105°	574.7	577.0	591.4	608.6	629.4	641.2	632.6	587.4	493.0	363.3	240.8
107.5°	666.4	670.5	675.4	681.2	680.8	664.7	625.2	551.8	444.7	326.9	223.9
110°	703.9	704.9	705.8	702.2	689.5	657.9	600.9	517.8	414.3	306.3	217.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	711.5	711.4	708.0	696.7	673.6	633.0	569.1	484.2	387.9	292.6	213.7
115°	699.0	696.7	687.7	667.8	633.9	584.7	518.2	439.7	356.1	277.9	212.4
117.5°	659.0	656.0	642.9	620.2	584.9	534.9	475.2	407.3	336.8	269.2	213.2
120°	625.8	623.1	612.3	586.9	551.3	505.6	451.4	390.4	326.7	265.2	214.6
122.5°	594.7	591.3	579.3	556.6	524.8	482.4	432.2	377.0	318.4	262.7	217.1
125°	551.3	548.1	536.8	516.9	488.0	451.9	408.4	359.2	307.7	259.4	220.9
127.5°	515.5	512.5	502.3	485.4	459.6	426.7	387.6	343.6	298.3	257.7	225.3
130°	495.2	491.6	482.1	465.9	441.9	411.1	374.5	333.9	293.3	256.7	228.1
132.5°	475.3	472.8	464.4	448.1	425.6	396.3	362.3	324.9	288.5	256.3	230.4
135°	446.9	443.7	435.5	422.0	399.9	374.1	344.8	312.7	282.4	255.7	233.6
137.5°	416.8	414.7	407.8	394.1	375.5	353.2	327.9	301.6	277.1	254.8	235.8
140°	395.8	396.2	389.0	376.4	359.2	339.8	318.1	295.1	273.8	254.4	237.2
142.5°	376.3	376.8	370.3	359.0	344.4	327.5	308.7	288.9	270.9	253.7	238.3
145°	349.3	348.4	344.8	335.3	324.0	310.9	296.4	281.5	267.0	252.5	239.0
147.5°	327.0	326.7	323.2	316.8	308.2	299.0	287.2	275.4	263.2	250.9	239.0
150°	314.0	314.0	311.3	306.3	299.6	291.0	281.5	271.1	260.7	249.4	239.0
152.5°	303.2	303.2	301.6	296.9	291.6	284.5	276.1	267.1	257.9	247.6	238.0
155°	289.6	289.1	288.3	284.6	280.6	275.2	268.4	261.2	253.5	244.5	236.8
157.5°	277.3	277.3	276.6	273.9	270.4	266.2	260.9	254.8	248.6	241.6	235.2
160°	269.3	269.7	269.7	267.0	263.9	260.7	256.2	251.2	245.3	239.5	234.5
162.5°	262.1	262.5	262.5	260.2	258.1	255.3	251.1	246.9	242.1	237.3	233.1
165°	252.5	252.5	253.0	251.2	249.4	247.2	244.0	241.3	237.7	234.1	230.9
167.5°	243.5	243.5	244.0	242.7	241.9	240.3	238.4	236.4	233.5	230.8	228.7
170°	238.1	238.1	238.6	237.7	237.2	236.3	234.5	233.1	230.9	228.6	227.3
172.5°	233.1	233.5	234.2	233.3	233.2	232.7	231.2	230.3	228.4	226.8	226.2
175°	227.3	227.8	228.1	227.8	227.8	227.8	226.8	226.4	225.5	224.6	224.6
177.5°	223.9	223.9	224.7	224.3	224.7	224.7	224.3	223.9	223.6	223.2	223.6
180°	223.2	223.2	223.2	223.2	223.2	223.2	223.2	223.2	223.2	223.2	223.2



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0
2.5°	1324.8	1320.9	1316.9	1310.0	1303.9	1295.5	1293.0	1290.0	1281.0	1273.1	1267.1
5°	1405.8	1390.8	1369.0	1349.2	1333.0	1311.2	1298.7	1285.6	1266.9	1250.1	1236.4
7.5°	1490.5	1461.1	1427.2	1390.6	1356.5	1323.7	1297.1	1273.4	1247.3	1222.5	1203.2
10°	1557.7	1515.4	1468.1	1417.1	1373.4	1331.1	1295.6	1264.5	1230.9	1201.6	1177.3
12.5°	1634.4	1571.7	1506.4	1444.4	1392.9	1334.1	1291.1	1251.6	1213.5	1178.2	1151.0
15°	1725.2	1645.5	1568.3	1483.0	1404.5	1331.1	1280.1	1230.3	1186.1	1149.9	1115.1
17.5°	1807.9	1717.6	1615.9	1512.1	1417.5	1330.4	1258.9	1202.6	1147.3	1103.1	1068.3
20°	1854.7	1752.0	1636.8	1529.1	1424.5	1327.4	1249.0	1181.7	1121.9	1075.2	1036.0
22.5°	1895.1	1774.9	1655.7	1540.6	1424.0	1319.4	1230.5	1161.3	1096.5	1050.8	1009.1
25°	1936.9	1793.1	1673.6	1538.4	1408.3	1300.0	1200.4	1121.9	1057.2	1003.6	960.7
27.5°	1972.8	1791.8	1650.0	1504.7	1383.6	1275.1	1168.7	1084.6	1015.8	957.7	914.1
30°	1996.6	1794.3	1625.6	1481.8	1359.8	1247.7	1144.3	1059.6	987.5	928.3	887.2
32.5°	2011.6	1792.8	1603.1	1449.9	1321.9	1222.7	1117.9	1030.2	956.1	897.9	858.3
35°	2020.3	1781.9	1564.6	1384.0	1260.8	1164.3	1076.5	985.6	907.8	853.6	808.7
37.5°	2002.9	1758.8	1519.7	1320.5	1185.6	1090.5	1016.7	939.2	864.7	805.2	766.5
40°	1975.5	1743.9	1484.9	1275.7	1133.8	1042.2	979.4	903.4	829.9	773.2	737.1
42.5°	1923.2	1713.5	1446.5	1225.9	1080.0	988.4	930.5	867.0	797.6	744.3	708.3
45°	1795.6	1647.3	1389.0	1151.2	1000.5	905.9	854.8	808.7	745.8	694.2	663.1
47.5°	1618.5	1547.9	1305.8	1072.4	917.6	826.6	773.5	736.4	690.5	648.7	618.9
50°	1495.5	1466.2	1249.5	1018.6	862.3	773.2	722.2	688.6	655.6	613.9	586.5
52.5°	1353.5	1371.6	1183.8	962.7	806.0	718.5	670.4	643.7	613.8	579.5	555.6
55°	1153.7	1219.0	1070.2	869.1	722.2	638.8	593.3	569.7	552.2	526.7	506.2
57.5°	966.5	1049.7	947.5	772.6	639.9	567.9	524.3	498.6	487.4	474.0	457.9
60°	855.5	937.6	859.8	707.9	584.6	516.1	477.5	455.7	444.5	435.2	421.5
62.5°	756.3	839.5	774.1	642.1	530.3	466.8	433.2	411.9	403.2	398.3	386.7
65°	620.1	691.7	648.1	539.8	452.7	396.6	366.1	351.2	343.0	341.2	333.7
67.5°	504.7	559.2	527.4	447.7	379.1	330.7	304.8	292.2	285.9	285.3	279.6
70°	429.0	480.0	455.7	383.5	324.4	286.4	264.0	252.8	249.1	248.4	245.3
72.5°	370.2	405.8	386.5	326.2	280.5	246.1	229.6	217.9	213.7	214.5	212.5
75°	273.9	300.7	289.5	247.8	211.0	188.6	174.9	167.5	163.7	165.6	163.1
77.5°	197.1	214.0	204.0	175.1	152.4	136.3	126.1	121.5	118.2	118.0	116.9
80°	148.8	158.8	153.1	135.7	117.1	103.4	95.2	92.1	90.3	89.7	89.0
82.5°	106.0	114.5	107.8	95.9	83.2	74.9	70.3	66.2	64.9	65.3	64.6
85°	53.6	56.6	54.2	46.7	41.7	37.9	35.5	33.6	32.4	33.0	31.8
87.5°	20.1	20.4	18.6	16.4	15.3	13.5	13.3	12.1	11.3	11.5	11.2
90°	8.6	7.2	5.9	5.0	4.0	2.7	1.8	0.9	1.8	2.7	4.0
92.5°	57.4	37.9	26.1	19.4	15.6	12.1	8.3	5.6	8.3	12.1	15.6
95°	164.5	97.1	58.7	41.1	29.4	21.7	16.7	15.4	16.7	21.7	29.4
97.5°	180.5	104.6	67.9	48.8	37.2	30.6	26.7	26.2	26.7	30.6	37.2
100°	170.3	103.5	71.9	54.2	43.4	37.1	33.9	33.4	33.9	37.1	43.4
102.5°	161.7	104.9	76.5	60.4	50.6	44.7	41.8	41.0	41.8	44.7	50.6
105°	155.4	108.9	84.5	70.5	61.9	56.5	53.8	52.4	53.8	56.5	61.9
107.5°	155.0	116.3	94.9	81.9	73.8	68.5	65.9	64.5	65.9	68.5	73.8
110°	156.8	122.5	102.1	89.4	81.8	76.8	74.5	73.2	74.5	76.8	81.8



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	160.4	128.6	109.7	97.4	89.8	84.8	82.5	81.1	82.5	84.8	89.8
115°	166.3	138.7	121.5	109.3	101.6	97.1	94.4	92.6	94.4	97.1	101.6
117.5°	174.0	149.5	132.5	121.2	112.6	108.4	106.2	104.1	106.2	108.4	112.6
120°	179.8	156.3	140.1	128.8	120.2	115.7	113.4	112.1	113.4	115.7	120.2
122.5°	185.3	163.6	147.7	135.6	127.4	122.6	120.3	118.9	120.3	122.6	127.4
125°	193.8	174.0	158.1	145.9	137.4	132.4	129.7	128.8	129.7	132.4	137.4
127.5°	200.9	183.0	167.7	155.5	146.0	141.0	137.6	136.3	137.6	141.0	146.0
130°	205.6	188.4	173.5	161.3	151.8	146.4	142.4	141.0	142.4	146.4	151.8
132.5°	209.9	193.1	178.6	166.8	157.2	150.8	146.3	144.6	146.3	150.8	157.2
135°	215.6	200.2	186.2	174.0	164.5	157.7	152.7	150.9	152.7	157.7	164.5
137.5°	219.7	205.0	191.5	180.3	170.9	163.7	158.8	156.9	158.8	163.7	170.9
140°	221.9	208.3	195.2	183.9	174.8	167.6	163.1	160.9	163.1	167.6	174.8
142.5°	224.0	210.8	198.1	187.5	178.5	172.0	167.1	165.2	167.1	172.0	178.5
145°	226.4	214.2	202.4	192.0	184.3	177.6	173.5	172.1	173.5	177.6	184.3
147.5°	227.8	216.9	206.1	197.3	189.9	184.0	180.0	179.2	180.0	184.0	189.9
150°	228.1	218.7	208.3	200.2	193.8	188.0	184.3	183.9	184.3	188.0	193.8
152.5°	228.9	219.8	210.8	203.0	197.5	192.3	188.7	188.6	188.7	192.3	197.5
155°	229.1	221.9	214.2	207.9	202.9	198.4	195.7	195.7	195.7	198.4	202.9
157.5°	229.6	223.0	216.9	212.0	207.8	203.7	201.6	201.2	201.6	203.7	207.8
160°	229.6	224.1	218.7	214.2	211.0	207.4	205.6	205.6	205.6	207.4	211.0
162.5°	229.2	224.5	219.8	215.9	213.2	210.3	208.8	208.8	208.8	210.3	213.2
165°	228.1	225.0	221.4	218.2	216.4	214.2	213.3	213.7	213.3	214.2	216.4
167.5°	227.4	224.9	222.3	220.3	219.0	217.3	216.9	217.5	216.9	217.3	219.0
170°	226.4	224.6	222.3	221.4	220.5	219.1	218.7	219.6	218.7	219.1	220.5
172.5°	226.0	224.6	222.7	222.1	221.6	220.6	220.5	221.0	220.5	220.6	221.6
175°	225.0	224.1	223.2	222.8	222.8	221.9	222.3	222.8	222.3	221.9	222.8
177.5°	224.3	223.6	223.2	223.2	223.2	222.8	223.2	223.6	223.2	222.8	223.2
180°	223.2	223.2	223.2	223.2	223.2	223.2	223.2	223.2	223.2	223.2	223.2



TEST NUMBER: P332056-927

CATALOG NUMBER: S123DIP-S1165D585U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0
2.5°	1263.6	1260.1	1255.1	1247.7	1241.7	1232.2	1232.2	1233.7	1233.7	1233.3	1232.2
5°	1225.3	1215.9	1204.8	1191.7	1178.0	1164.3	1161.7	1156.7	1153.0	1150.6	1147.5
7.5°	1184.8	1168.2	1151.9	1133.6	1116.9	1103.1	1093.5	1085.5	1080.5	1075.0	1071.0
10°	1157.4	1136.9	1117.5	1098.3	1077.1	1060.3	1049.7	1042.2	1036.6	1031.7	1029.1
12.5°	1125.1	1101.5	1080.2	1061.9	1038.7	1021.4	1011.4	1007.8	1001.2	990.8	985.3
15°	1077.7	1055.9	1030.4	1002.3	991.2	970.0	958.1	952.6	948.8	940.7	938.3
17.5°	1037.2	1008.7	980.1	959.2	938.3	921.1	914.6	907.6	902.6	896.0	894.1
20°	1004.9	979.4	953.2	930.8	908.9	890.3	884.7	879.7	874.7	871.6	869.1
22.5°	972.0	946.5	924.8	903.9	880.6	868.4	862.3	856.8	853.3	851.2	848.7
25°	925.8	903.4	879.1	860.4	841.8	833.6	829.9	826.8	824.3	821.2	820.5
27.5°	884.5	860.1	840.3	822.9	809.5	802.8	799.2	797.6	798.2	799.3	800.0
30°	853.6	831.2	815.0	800.0	787.6	781.3	780.7	780.7	783.2	783.9	785.1
32.5°	825.2	806.8	790.6	776.1	766.7	762.4	764.8	764.8	766.8	768.4	770.6
35°	783.9	767.6	755.2	742.8	734.7	736.5	737.8	739.0	742.1	745.8	748.4
37.5°	744.3	730.3	717.3	707.7	703.9	707.3	710.3	712.9	716.4	719.4	721.8
40°	716.0	705.4	692.9	684.2	685.5	687.4	689.8	692.9	696.1	697.9	700.4
42.5°	689.6	678.5	669.1	661.8	663.5	665.9	667.4	669.1	672.6	676.0	677.5
45°	649.4	640.6	631.9	627.6	628.8	630.1	631.3	633.2	636.3	638.8	639.4
47.5°	604.2	598.1	592.2	588.0	589.9	589.5	591.1	595.1	596.0	597.5	601.0
50°	575.3	569.7	562.8	561.6	561.6	561.6	562.2	567.2	567.2	569.7	572.2
52.5°	543.4	539.8	535.4	533.2	532.2	532.2	534.8	537.3	538.3	541.8	544.3
55°	496.2	492.5	488.7	486.9	485.6	486.9	491.9	493.1	496.2	498.0	499.9
57.5°	447.0	444.2	441.2	440.1	439.9	441.6	444.3	448.0	448.8	454.5	457.3
60°	414.6	410.3	407.8	407.8	406.5	412.2	410.9	417.2	418.4	422.2	426.5
62.5°	381.3	375.4	374.5	374.5	376.2	377.8	379.5	382.3	385.5	390.2	393.6
65°	327.5	324.4	328.8	328.1	326.9	330.6	330.6	333.7	337.5	341.8	348.6
67.5°	276.6	275.0	275.3	275.3	277.2	279.3	281.1	283.8	288.3	292.9	297.4
70°	242.2	244.1	241.0	243.4	245.3	245.9	247.2	250.9	255.9	259.0	264.0
72.5°	208.8	208.7	209.1	210.1	211.9	213.0	214.3	218.6	224.0	226.6	230.6
75°	160.7	160.0	161.8	161.8	165.0	166.2	167.5	169.4	174.4	178.1	181.2
77.5°	117.3	118.0	117.6	119.8	118.9	119.1	123.0	124.9	125.4	132.8	134.4
80°	88.4	89.7	90.3	90.9	91.5	90.3	94.7	96.5	96.5	100.8	103.9
82.5°	63.5	64.2	65.9	66.5	66.6	67.9	68.2	69.6	71.1	73.0	77.1
85°	31.8	33.6	34.2	33.6	34.2	33.0	34.9	35.5	36.1	36.1	36.1
87.5°	10.9	11.6	11.4	12.2	12.0	12.8	12.6	11.7	11.8	13.4	11.6
90°	5.0	5.9	7.2	8.6	9.9	11.3	10.9	11.3	11.7	12.2	13.1
92.5°	19.4	26.1	37.9	57.4	76.4	69.5	52.4	38.0	30.2	26.7	24.3
95°	41.1	58.7	97.1	164.5	238.6	267.9	217.3	162.6	110.3	86.3	70.0
97.5°	48.8	67.9	104.6	180.5	304.0	415.3	444.3	405.5	324.8	266.5	212.5
100°	54.2	71.9	103.5	170.3	289.1	427.9	516.9	532.7	496.1	443.2	379.1
102.5°	60.4	76.5	104.9	161.7	267.5	404.4	520.5	575.0	573.9	543.0	502.3
105°	70.5	84.5	108.9	155.4	240.8	363.3	493.0	587.4	632.6	641.2	629.4
107.5°	81.9	94.9	116.3	155.0	223.9	326.9	444.7	551.8	625.2	664.7	680.8
110°	89.4	102.1	122.5	156.8	217.3	306.3	414.3	517.8	600.9	657.9	689.5



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	97.4	109.7	128.6	160.4	213.7	292.6	387.9	484.2	569.1	633.0	673.6
115°	109.3	121.5	138.7	166.3	212.4	277.9	356.1	439.7	518.2	584.7	633.9
117.5°	121.2	132.5	149.5	174.0	213.2	269.2	336.8	407.3	475.2	534.9	584.9
120°	128.8	140.1	156.3	179.8	214.6	265.2	326.7	390.4	451.4	505.6	551.3
122.5°	135.6	147.7	163.6	185.3	217.1	262.7	318.4	377.0	432.2	482.4	524.8
125°	145.9	158.1	174.0	193.8	220.9	259.4	307.7	359.2	408.4	451.9	488.0
127.5°	155.5	167.7	183.0	200.9	225.3	257.7	298.3	343.6	387.6	426.7	459.6
130°	161.3	173.5	188.4	205.6	228.1	256.7	293.3	333.9	374.5	411.1	441.9
132.5°	166.8	178.6	193.1	209.9	230.4	256.3	288.5	324.9	362.3	396.3	425.6
135°	174.0	186.2	200.2	215.6	233.6	255.7	282.4	312.7	344.8	374.1	399.9
137.5°	180.3	191.5	205.0	219.7	235.8	254.8	277.1	301.6	327.9	353.2	375.5
140°	183.9	195.2	208.3	221.9	237.2	254.4	273.8	295.1	318.1	339.8	359.2
142.5°	187.5	198.1	210.8	224.0	238.3	253.7	270.9	288.9	308.7	327.5	344.4
145°	192.0	202.4	214.2	226.4	239.0	252.5	267.0	281.5	296.4	310.9	324.0
147.5°	197.3	206.1	216.9	227.8	239.0	250.9	263.2	275.4	287.2	299.0	308.2
150°	200.2	208.3	218.7	228.1	239.0	249.4	260.7	271.1	281.5	291.0	299.6
152.5°	203.0	210.8	219.8	228.9	238.0	247.6	257.9	267.1	276.1	284.5	291.6
155°	207.9	214.2	221.9	229.1	236.8	244.5	253.5	261.2	268.4	275.2	280.6
157.5°	212.0	216.9	223.0	229.6	235.2	241.6	248.6	254.8	260.9	266.2	270.4
160°	214.2	218.7	224.1	229.6	234.5	239.5	245.3	251.2	256.2	260.7	263.9
162.5°	215.9	219.8	224.5	229.2	233.1	237.3	242.1	246.9	251.1	255.3	258.1
165°	218.2	221.4	225.0	228.1	230.9	234.1	237.7	241.3	244.0	247.2	249.4
167.5°	220.3	222.3	224.9	227.4	228.7	230.8	233.5	236.4	238.4	240.3	241.9
170°	221.4	222.3	224.6	226.4	227.3	228.6	230.9	233.1	234.5	236.3	237.2
172.5°	222.1	222.7	224.6	226.0	226.2	226.8	228.4	230.3	231.2	232.7	233.2
175°	222.8	223.2	224.1	225.0	224.6	224.6	225.5	226.4	226.8	227.8	227.8
177.5°	223.2	223.2	223.6	224.3	223.6	223.2	223.6	223.9	224.3	224.7	224.7
180°	223.2	223.2	223.2	223.2	223.2	223.2	223.2	223.2	223.2	223.2	223.2



TEST NUMBER: P332056-927

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0
2.5°	1228.8	1228.3	1231.8	1229.2	1231.8	1228.3	1228.8	1232.2	1233.3	1233.7	1233.7
5°	1143.7	1145.6	1139.3	1139.3	1139.3	1145.6	1143.7	1147.5	1150.6	1153.0	1156.7
7.5°	1068.0	1065.2	1065.5	1062.2	1065.5	1065.2	1068.0	1071.0	1075.0	1080.5	1085.5
10°	1021.7	1018.0	1016.7	1017.3	1016.7	1018.0	1021.7	1029.1	1031.7	1036.6	1042.2
12.5°	983.3	982.5	974.4	974.5	974.4	982.5	983.3	985.3	990.8	1001.2	1007.8
15°	938.3	926.5	925.2	928.9	925.2	926.5	938.3	938.3	940.7	948.8	952.6
17.5°	893.0	886.8	887.2	885.3	887.2	886.8	893.0	894.1	896.0	902.6	907.6
20°	869.1	865.4	864.7	860.4	864.7	865.4	869.1	869.1	871.6	874.7	879.7
22.5°	847.2	846.0	846.4	841.5	846.4	846.0	847.2	848.7	851.2	853.3	856.8
25°	820.0	823.1	820.5	820.5	820.5	823.1	820.0	820.5	821.2	824.3	826.8
27.5°	801.5	801.4	800.2	800.2	800.2	801.4	801.5	800.0	799.3	798.2	797.6
30°	787.6	787.0	788.2	788.2	788.2	787.0	787.6	785.1	783.9	783.2	780.7
32.5°	773.6	774.5	774.8	775.2	774.8	774.5	773.6	770.6	768.4	766.8	764.8
35°	752.1	752.7	754.6	753.4	754.6	752.7	752.1	748.4	745.8	742.1	739.0
37.5°	722.9	725.8	725.2	726.2	725.2	725.8	722.9	721.8	719.4	716.4	712.9
40°	701.0	702.9	702.3	702.3	702.3	702.9	701.0	700.4	697.9	696.1	692.9
42.5°	678.7	680.0	678.3	677.4	678.3	680.0	678.7	677.5	676.0	672.6	669.1
45°	641.9	640.6	642.5	640.0	642.5	640.6	641.9	639.4	638.8	636.3	633.2
47.5°	600.8	602.1	602.5	604.4	602.5	602.1	600.8	601.0	597.5	596.0	595.1
50°	573.4	577.1	577.1	576.6	577.1	577.1	573.4	572.2	569.7	567.2	567.2
52.5°	546.5	548.3	550.7	550.6	550.7	548.3	546.5	544.3	541.8	538.3	537.3
55°	504.9	506.2	507.4	508.0	507.4	506.2	504.9	499.9	498.0	496.2	493.1
57.5°	461.8	461.4	464.3	465.2	464.3	461.4	461.8	457.3	454.5	448.8	448.0
60°	431.4	431.4	436.4	438.3	436.4	431.4	431.4	426.5	422.2	418.4	417.2
62.5°	399.1	401.1	406.1	403.5	406.1	401.1	399.1	393.6	390.2	385.5	382.3
65°	351.7	356.7	356.1	358.6	356.1	356.7	351.7	348.6	341.8	337.5	333.7
67.5°	302.3	305.5	309.9	310.3	309.9	305.5	302.3	297.4	292.9	288.3	283.8
70°	268.9	272.0	274.6	276.4	274.6	272.0	268.9	264.0	259.0	255.9	250.9
72.5°	236.6	238.2	244.2	241.5	244.2	238.2	236.6	230.6	226.6	224.0	218.6
75°	185.5	189.9	193.6	191.8	193.6	189.9	185.5	181.2	178.1	174.4	169.4
77.5°	137.2	141.6	143.3	141.7	143.3	141.6	137.2	134.4	132.8	125.4	124.9
80°	108.4	107.7	111.5	110.8	111.5	107.7	108.4	103.9	100.8	96.5	96.5
82.5°	79.5	78.8	80.6	81.0	80.6	78.8	79.5	77.1	73.0	71.1	69.6
85°	38.6	40.5	37.9	37.4	37.9	40.5	38.6	36.1	36.1	36.1	35.5
87.5°	11.5	11.6	11.2	10.6	11.2	11.6	11.5	11.6	13.4	11.8	11.7
90°	12.7	13.1	13.5	13.1	13.5	13.1	12.7	13.1	12.2	11.7	11.3
92.5°	23.5	22.1	22.6	21.8	22.6	22.1	23.5	24.3	26.7	30.2	38.0
95°	61.5	57.4	54.2	52.4	54.2	57.4	61.5	70.0	86.3	110.3	162.6
97.5°	179.1	158.8	146.6	142.7	146.6	158.8	179.1	212.5	266.5	324.8	405.5
100°	333.4	300.5	282.9	283.3	282.9	300.5	333.4	379.1	443.2	496.1	532.7
102.5°	466.8	440.7	426.0	415.6	426.0	440.7	466.8	502.3	543.0	573.9	575.0
105°	608.6	591.4	577.0	574.7	577.0	591.4	608.6	629.4	641.2	632.6	587.4
107.5°	681.2	675.4	670.5	666.4	670.5	675.4	681.2	680.8	664.7	625.2	551.8
110°	702.2	705.8	704.9	703.9	704.9	705.8	702.2	689.5	657.9	600.9	517.8



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	696.7	708.0	711.4	711.5	711.4	708.0	696.7	673.6	633.0	569.1	484.2
115°	667.8	687.7	696.7	699.0	696.7	687.7	667.8	633.9	584.7	518.2	439.7
117.5°	620.2	642.9	656.0	659.0	656.0	642.9	620.2	584.9	534.9	475.2	407.3
120°	586.9	612.3	623.1	625.8	623.1	612.3	586.9	551.3	505.6	451.4	390.4
122.5°	556.6	579.3	591.3	594.7	591.3	579.3	556.6	524.8	482.4	432.2	377.0
125°	516.9	536.8	548.1	551.3	548.1	536.8	516.9	488.0	451.9	408.4	359.2
127.5°	485.4	502.3	512.5	515.5	512.5	502.3	485.4	459.6	426.7	387.6	343.6
130°	465.9	482.1	491.6	495.2	491.6	482.1	465.9	441.9	411.1	374.5	333.9
132.5°	448.1	464.4	472.8	475.3	472.8	464.4	448.1	425.6	396.3	362.3	324.9
135°	422.0	435.5	443.7	446.9	443.7	435.5	422.0	399.9	374.1	344.8	312.7
137.5°	394.1	407.8	414.7	416.8	414.7	407.8	394.1	375.5	353.2	327.9	301.6
140°	376.4	389.0	396.2	395.8	396.2	389.0	376.4	359.2	339.8	318.1	295.1
142.5°	359.0	370.3	376.8	376.3	376.8	370.3	359.0	344.4	327.5	308.7	288.9
145°	335.3	344.8	348.4	349.3	348.4	344.8	335.3	324.0	310.9	296.4	281.5
147.5°	316.8	323.2	326.7	327.0	326.7	323.2	316.8	308.2	299.0	287.2	275.4
150°	306.3	311.3	314.0	314.0	314.0	311.3	306.3	299.6	291.0	281.5	271.1
152.5°	296.9	301.6	303.2	303.2	303.2	301.6	296.9	291.6	284.5	276.1	267.1
155°	284.6	288.3	289.1	289.6	289.1	288.3	284.6	280.6	275.2	268.4	261.2
157.5°	273.9	276.6	277.3	277.3	277.3	276.6	273.9	270.4	266.2	260.9	254.8
160°	267.0	269.7	269.7	269.3	269.7	269.7	267.0	263.9	260.7	256.2	251.2
162.5°	260.2	262.5	262.5	262.1	262.5	262.5	260.2	258.1	255.3	251.1	246.9
165°	251.2	253.0	252.5	252.5	252.5	253.0	251.2	249.4	247.2	244.0	241.3
167.5°	242.7	244.0	243.5	243.5	243.5	244.0	242.7	241.9	240.3	238.4	236.4
170°	237.7	238.6	238.1	238.1	238.1	238.6	237.7	237.2	236.3	234.5	233.1
172.5°	233.3	234.2	233.5	233.1	233.5	234.2	233.3	233.2	232.7	231.2	230.3
175°	227.8	228.1	227.8	227.3	227.8	228.1	227.8	227.8	227.8	226.8	226.4
177.5°	224.3	224.7	223.9	223.9	223.9	224.7	224.3	224.7	224.7	224.3	223.9
180°	223.2	223.2	223.2	223.2	223.2	223.2	223.2	223.2	223.2	223.2	223.2



TEST NUMBER: P332056-927

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0
2.5°	1232.2	1232.2	1241.7	1247.7	1255.1	1260.1	1263.6	1267.1	1273.1	1281.0	1290.0
5°	1161.7	1164.3	1178.0	1191.7	1204.8	1215.9	1225.3	1236.4	1250.1	1266.9	1285.6
7.5°	1093.5	1103.1	1116.9	1133.6	1151.9	1168.2	1184.8	1203.2	1222.5	1247.3	1273.4
10°	1049.7	1060.3	1077.1	1098.3	1117.5	1136.9	1157.4	1177.3	1201.6	1230.9	1264.5
12.5°	1011.4	1021.4	1038.7	1061.9	1080.2	1101.5	1125.1	1151.0	1178.2	1213.5	1251.6
15°	958.1	970.0	991.2	1002.3	1030.4	1055.9	1077.7	1115.1	1149.9	1186.1	1230.3
17.5°	914.6	921.1	938.3	959.2	980.1	1008.7	1037.2	1068.3	1103.1	1147.3	1202.6
20°	884.7	890.3	908.9	930.8	953.2	979.4	1004.9	1036.0	1075.2	1121.9	1181.7
22.5°	862.3	868.4	880.6	903.9	924.8	946.5	972.0	1009.1	1050.8	1096.5	1161.3
25°	829.9	833.6	841.8	860.4	879.1	903.4	925.8	960.7	1003.6	1057.2	1121.9
27.5°	799.2	802.8	809.5	822.9	840.3	860.1	884.5	914.1	957.7	1015.8	1084.6
30°	780.7	781.3	787.6	800.0	815.0	831.2	853.6	887.2	928.3	987.5	1059.6
32.5°	764.8	762.4	766.7	776.1	790.6	806.8	825.2	858.3	897.9	956.1	1030.2
35°	737.8	736.5	734.7	742.8	755.2	767.6	783.9	808.7	853.6	907.8	985.6
37.5°	710.3	707.3	703.9	707.7	717.3	730.3	744.3	766.5	805.2	864.7	939.2
40°	689.8	687.4	685.5	684.2	692.9	705.4	716.0	737.1	773.2	829.9	903.4
42.5°	667.4	665.9	663.5	661.8	669.1	678.5	689.6	708.3	744.3	797.6	867.0
45°	631.3	630.1	628.8	627.6	631.9	640.6	649.4	663.1	694.2	745.8	808.7
47.5°	591.1	589.5	589.9	588.0	592.2	598.1	604.2	618.9	648.7	690.5	736.4
50°	562.2	561.6	561.6	561.6	562.8	569.7	575.3	586.5	613.9	655.6	688.6
52.5°	534.8	532.2	532.2	533.2	535.4	539.8	543.4	555.6	579.5	613.8	643.7
55°	491.9	486.9	485.6	486.9	488.7	492.5	496.2	506.2	526.7	552.2	569.7
57.5°	444.3	441.6	439.9	440.1	441.2	444.2	447.0	457.9	474.0	487.4	498.6
60°	410.9	412.2	406.5	407.8	407.8	410.3	414.6	421.5	435.2	444.5	455.7
62.5°	379.5	377.8	376.2	374.5	374.5	375.4	381.3	386.7	398.3	403.2	411.9
65°	330.6	330.6	326.9	328.1	328.8	324.4	327.5	333.7	341.2	343.0	351.2
67.5°	281.1	279.3	277.2	275.3	275.3	275.0	276.6	279.6	285.3	285.9	292.2
70°	247.2	245.9	245.3	243.4	241.0	244.1	242.2	245.3	248.4	249.1	252.8
72.5°	214.3	213.0	211.9	210.1	209.1	208.7	208.8	212.5	214.5	213.7	217.9
75°	167.5	166.2	165.0	161.8	161.8	160.0	160.7	163.1	165.6	163.7	167.5
77.5°	123.0	119.1	118.9	119.8	117.6	118.0	117.3	116.9	118.0	118.2	121.5
80°	94.7	90.3	91.5	90.9	90.3	89.7	88.4	89.0	89.7	90.3	92.1
82.5°	68.2	67.9	66.6	66.5	65.9	64.2	63.5	64.6	65.3	64.9	66.2
85°	34.9	33.0	34.2	33.6	34.2	33.6	31.8	31.8	33.0	32.4	33.6
87.5°	12.6	12.8	12.0	12.2	11.4	11.6	10.9	11.2	11.5	11.3	12.1
90°	10.9	11.3	9.9	8.6	7.2	5.9	5.0	4.0	2.7	1.8	0.9
92.5°	52.4	69.5	76.4	57.4	37.9	26.1	19.4	15.6	12.1	8.3	5.6
95°	217.3	267.9	238.6	164.5	97.1	58.7	41.1	29.4	21.7	16.7	15.4
97.5°	444.3	415.3	304.0	180.5	104.6	67.9	48.8	37.2	30.6	26.7	26.2
100°	516.9	427.9	289.1	170.3	103.5	71.9	54.2	43.4	37.1	33.9	33.4
102.5°	520.5	404.4	267.5	161.7	104.9	76.5	60.4	50.6	44.7	41.8	41.0
105°	493.0	363.3	240.8	155.4	108.9	84.5	70.5	61.9	56.5	53.8	52.4
107.5°	444.7	326.9	223.9	155.0	116.3	94.9	81.9	73.8	68.5	65.9	64.5
110°	414.3	306.3	217.3	156.8	122.5	102.1	89.4	81.8	76.8	74.5	73.2



TEST NUMBER: P332056-927

CATALOG NUMBER: S123DIP-S1165D585U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	387.9	292.6	213.7	160.4	128.6	109.7	97.4	89.8	84.8	82.5	81.1
115°	356.1	277.9	212.4	166.3	138.7	121.5	109.3	101.6	97.1	94.4	92.6
117.5°	336.8	269.2	213.2	174.0	149.5	132.5	121.2	112.6	108.4	106.2	104.1
120°	326.7	265.2	214.6	179.8	156.3	140.1	128.8	120.2	115.7	113.4	112.1
122.5°	318.4	262.7	217.1	185.3	163.6	147.7	135.6	127.4	122.6	120.3	118.9
125°	307.7	259.4	220.9	193.8	174.0	158.1	145.9	137.4	132.4	129.7	128.8
127.5°	298.3	257.7	225.3	200.9	183.0	167.7	155.5	146.0	141.0	137.6	136.3
130°	293.3	256.7	228.1	205.6	188.4	173.5	161.3	151.8	146.4	142.4	141.0
132.5°	288.5	256.3	230.4	209.9	193.1	178.6	166.8	157.2	150.8	146.3	144.6
135°	282.4	255.7	233.6	215.6	200.2	186.2	174.0	164.5	157.7	152.7	150.9
137.5°	277.1	254.8	235.8	219.7	205.0	191.5	180.3	170.9	163.7	158.8	156.9
140°	273.8	254.4	237.2	221.9	208.3	195.2	183.9	174.8	167.6	163.1	160.9
142.5°	270.9	253.7	238.3	224.0	210.8	198.1	187.5	178.5	172.0	167.1	165.2
145°	267.0	252.5	239.0	226.4	214.2	202.4	192.0	184.3	177.6	173.5	172.1
147.5°	263.2	250.9	239.0	227.8	216.9	206.1	197.3	189.9	184.0	180.0	179.2
150°	260.7	249.4	239.0	228.1	218.7	208.3	200.2	193.8	188.0	184.3	183.9
152.5°	257.9	247.6	238.0	228.9	219.8	210.8	203.0	197.5	192.3	188.7	188.6
155°	253.5	244.5	236.8	229.1	221.9	214.2	207.9	202.9	198.4	195.7	195.7
157.5°	248.6	241.6	235.2	229.6	223.0	216.9	212.0	207.8	203.7	201.6	201.2
160°	245.3	239.5	234.5	229.6	224.1	218.7	214.2	211.0	207.4	205.6	205.6
162.5°	242.1	237.3	233.1	229.2	224.5	219.8	215.9	213.2	210.3	208.8	208.8
165°	237.7	234.1	230.9	228.1	225.0	221.4	218.2	216.4	214.2	213.3	213.7
167.5°	233.5	230.8	228.7	227.4	224.9	222.3	220.3	219.0	217.3	216.9	217.5
170°	230.9	228.6	227.3	226.4	224.6	222.3	221.4	220.5	219.1	218.7	219.6
172.5°	228.4	226.8	226.2	226.0	224.6	222.7	222.1	221.6	220.6	220.5	221.0
175°	225.5	224.6	224.6	225.0	224.1	223.2	222.8	222.8	221.9	222.3	222.8
177.5°	223.6	223.2	223.6	224.3	223.6	223.2	223.2	223.2	222.8	223.2	223.6
180°	223.2	223.2	223.2	223.2	223.2	223.2	223.2	223.2	223.2	223.2	223.2



TEST NUMBER: P332056-927

CATALOG NUMBER: S123DIP-S1165D585U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0
2.5°	1293.0	1295.5	1303.9	1310.0	1316.9	1320.9	1324.8	1327.9	1331.8	1332.8	1347.3
5°	1298.7	1311.2	1333.0	1349.2	1369.0	1390.8	1405.8	1412.7	1430.7	1445.7	1475.5
7.5°	1297.1	1323.7	1356.5	1390.6	1427.2	1461.1	1490.5	1525.3	1550.1	1587.4	1624.1
10°	1295.6	1331.1	1373.4	1417.1	1468.1	1515.4	1557.7	1605.0	1644.3	1695.9	1740.1
12.5°	1291.1	1334.1	1392.9	1444.4	1506.4	1571.7	1634.4	1695.2	1730.0	1816.0	1856.7
15°	1280.1	1331.1	1404.5	1483.0	1568.3	1645.5	1725.2	1788.7	1891.4	1966.8	2014.7
17.5°	1258.9	1330.4	1417.5	1512.1	1615.9	1717.6	1807.9	1904.2	2013.3	2104.4	2201.5
20°	1249.0	1327.4	1424.5	1529.1	1636.8	1752.0	1854.7	1970.5	2089.5	2179.1	2303.6
22.5°	1230.5	1319.4	1424.0	1540.6	1655.7	1774.9	1895.1	2011.8	2149.2	2272.7	2391.3
25°	1200.4	1300.0	1408.3	1538.4	1673.6	1793.1	1936.9	2091.9	2235.1	2393.9	2512.2
27.5°	1168.7	1275.1	1383.6	1504.7	1650.0	1791.8	1972.8	2147.9	2323.0	2460.1	2547.7
30°	1144.3	1247.7	1359.8	1481.8	1625.6	1794.3	1996.6	2187.8	2358.4	2476.0	2525.2
32.5°	1117.9	1222.7	1321.9	1449.9	1603.1	1792.8	2011.6	2211.2	2360.4	2438.7	2429.1
35°	1076.5	1164.3	1260.8	1384.0	1564.6	1781.9	2020.3	2213.3	2304.9	2288.1	2161.0
37.5°	1016.7	1090.5	1185.6	1320.5	1519.7	1758.8	2002.9	2147.7	2141.7	2004.9	1820.8
40°	979.4	1042.2	1133.8	1275.7	1484.9	1743.9	1975.5	2069.5	1989.8	1798.6	1578.3
42.5°	930.5	988.4	1080.0	1225.9	1446.5	1713.5	1923.2	1950.4	1794.5	1574.5	1372.5
45°	854.8	905.9	1000.5	1151.2	1389.0	1647.3	1795.6	1728.9	1519.1	1291.9	1138.1
47.5°	773.5	826.6	917.6	1072.4	1305.8	1547.9	1618.5	1476.8	1261.4	1077.1	935.9
50°	722.2	773.2	862.3	1018.6	1249.5	1466.2	1495.5	1312.4	1114.4	952.6	836.8
52.5°	670.4	718.5	806.0	962.7	1183.8	1371.6	1353.5	1167.0	984.9	847.0	756.1
55°	593.3	638.8	722.2	869.1	1070.2	1219.0	1153.7	975.6	824.9	717.9	648.7
57.5°	524.3	567.9	639.9	772.6	947.5	1049.7	966.5	816.5	696.6	614.3	562.7
60°	477.5	516.1	584.6	707.9	859.8	937.6	855.5	722.9	621.9	556.0	509.9
62.5°	433.2	466.8	530.3	642.1	774.1	839.5	756.3	644.1	558.3	499.7	460.6
65°	366.1	396.6	452.7	539.8	648.1	691.7	620.1	529.2	462.6	419.0	392.8
67.5°	304.8	330.7	379.1	447.7	527.4	559.2	504.7	434.4	384.1	349.1	328.4
70°	264.0	286.4	324.4	383.5	455.7	480.0	429.0	371.1	334.3	306.3	287.0
72.5°	229.6	246.1	280.5	326.2	386.5	405.8	370.2	319.2	285.0	264.0	248.7
75°	174.9	188.6	211.0	247.8	289.5	300.7	273.9	242.2	219.1	204.2	192.3
77.5°	126.1	136.3	152.4	175.1	204.0	214.0	197.1	175.9	159.1	149.0	142.4
80°	95.2	103.4	117.1	135.7	153.1	158.8	148.8	132.6	120.8	115.2	109.6
82.5°	70.3	74.9	83.2	95.9	107.8	114.5	106.0	96.3	89.9	84.8	82.7
85°	35.5	37.9	41.7	46.7	54.2	56.6	53.6	51.0	47.3	44.2	44.2
87.5°	13.3	13.5	15.3	16.4	18.6	20.4	20.1	19.4	19.2	18.6	18.2
90°	1.8	2.7	4.0	5.0	5.9	7.2	8.6	9.9	11.3	10.9	11.3
92.5°	8.3	12.1	15.6	19.4	26.1	37.9	57.4	76.4	69.5	52.4	38.0
95°	16.7	21.7	29.4	41.1	58.7	97.1	164.5	238.6	267.9	217.3	162.6
97.5°	26.7	30.6	37.2	48.8	67.9	104.6	180.5	304.0	415.3	444.3	405.5
100°	33.9	37.1	43.4	54.2	71.9	103.5	170.3	289.1	427.9	516.9	532.7
102.5°	41.8	44.7	50.6	60.4	76.5	104.9	161.7	267.5	404.4	520.5	575.0
105°	53.8	56.5	61.9	70.5	84.5	108.9	155.4	240.8	363.3	493.0	587.4
107.5°	65.9	68.5	73.8	81.9	94.9	116.3	155.0	223.9	326.9	444.7	551.8
110°	74.5	76.8	81.8	89.4	102.1	122.5	156.8	217.3	306.3	414.3	517.8



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	82.5	84.8	89.8	97.4	109.7	128.6	160.4	213.7	292.6	387.9	484.2
115°	94.4	97.1	101.6	109.3	121.5	138.7	166.3	212.4	277.9	356.1	439.7
117.5°	106.2	108.4	112.6	121.2	132.5	149.5	174.0	213.2	269.2	336.8	407.3
120°	113.4	115.7	120.2	128.8	140.1	156.3	179.8	214.6	265.2	326.7	390.4
122.5°	120.3	122.6	127.4	135.6	147.7	163.6	185.3	217.1	262.7	318.4	377.0
125°	129.7	132.4	137.4	145.9	158.1	174.0	193.8	220.9	259.4	307.7	359.2
127.5°	137.6	141.0	146.0	155.5	167.7	183.0	200.9	225.3	257.7	298.3	343.6
130°	142.4	146.4	151.8	161.3	173.5	188.4	205.6	228.1	256.7	293.3	333.9
132.5°	146.3	150.8	157.2	166.8	178.6	193.1	209.9	230.4	256.3	288.5	324.9
135°	152.7	157.7	164.5	174.0	186.2	200.2	215.6	233.6	255.7	282.4	312.7
137.5°	158.8	163.7	170.9	180.3	191.5	205.0	219.7	235.8	254.8	277.1	301.6
140°	163.1	167.6	174.8	183.9	195.2	208.3	221.9	237.2	254.4	273.8	295.1
142.5°	167.1	172.0	178.5	187.5	198.1	210.8	224.0	238.3	253.7	270.9	288.9
145°	173.5	177.6	184.3	192.0	202.4	214.2	226.4	239.0	252.5	267.0	281.5
147.5°	180.0	184.0	189.9	197.3	206.1	216.9	227.8	239.0	250.9	263.2	275.4
150°	184.3	188.0	193.8	200.2	208.3	218.7	228.1	239.0	249.4	260.7	271.1
152.5°	188.7	192.3	197.5	203.0	210.8	219.8	228.9	238.0	247.6	257.9	267.1
155°	195.7	198.4	202.9	207.9	214.2	221.9	229.1	236.8	244.5	253.5	261.2
157.5°	201.6	203.7	207.8	212.0	216.9	223.0	229.6	235.2	241.6	248.6	254.8
160°	205.6	207.4	211.0	214.2	218.7	224.1	229.6	234.5	239.5	245.3	251.2
162.5°	208.8	210.3	213.2	215.9	219.8	224.5	229.2	233.1	237.3	242.1	246.9
165°	213.3	214.2	216.4	218.2	221.4	225.0	228.1	230.9	234.1	237.7	241.3
167.5°	216.9	217.3	219.0	220.3	222.3	224.9	227.4	228.7	230.8	233.5	236.4
170°	218.7	219.1	220.5	221.4	222.3	224.6	226.4	227.3	228.6	230.9	233.1
172.5°	220.5	220.6	221.6	222.1	222.7	224.6	226.0	226.2	226.8	228.4	230.3
175°	222.3	221.9	222.8	222.8	223.2	224.1	225.0	224.6	224.6	225.5	226.4
177.5°	223.2	222.8	223.2	223.2	223.2	223.6	224.3	223.6	223.2	223.6	223.9
180°	223.2	223.2	223.2	223.2	223.2	223.2	223.2	223.2	223.2	223.2	223.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0
2.5°	1352.3	1352.7	1358.3	1362.2	1360.3	1362.7	1363.7
5°	1477.4	1499.8	1511.6	1520.4	1521.0	1521.6	1526.6
7.5°	1654.9	1678.9	1696.5	1723.1	1731.1	1740.1	1737.5
10°	1784.4	1819.8	1850.4	1866.5	1884.0	1909.5	1889.0
12.5°	1905.4	1968.3	2014.7	2039.9	2056.3	2061.4	2051.4
15°	2105.0	2187.1	2231.3	2230.2	2286.2	2310.5	2272.5
17.5°	2288.1	2363.9	2424.6	2455.8	2502.4	2512.8	2508.0
20°	2400.1	2482.9	2530.2	2583.8	2608.0	2629.8	2633.5
22.5°	2496.7	2571.0	2621.9	2666.4	2686.8	2697.1	2703.3
25°	2596.2	2654.8	2685.3	2700.8	2706.4	2705.1	2697.1
27.5°	2589.3	2593.8	2560.3	2527.2	2497.8	2464.5	2453.0
30°	2522.1	2469.8	2376.5	2323.5	2245.7	2184.0	2208.9
32.5°	2345.3	2241.2	2136.4	2020.7	1924.9	1897.7	1870.3
35°	2001.6	1818.6	1711.5	1587.0	1537.2	1487.4	1453.1
37.5°	1619.4	1477.8	1350.8	1269.3	1219.4	1187.9	1171.0
40°	1400.2	1272.6	1168.0	1102.0	1064.0	1028.5	1023.6
42.5°	1225.4	1106.8	1028.0	975.5	939.0	923.9	913.0
45°	1003.6	920.8	867.9	830.5	806.3	796.9	784.5
47.5°	849.5	790.9	751.2	725.8	707.5	700.5	699.6
50°	763.3	714.7	685.5	665.5	651.3	648.7	638.8
52.5°	698.5	656.5	633.7	616.2	605.9	599.0	596.0
55°	606.4	578.4	557.9	547.9	539.8	532.9	532.9
57.5°	530.6	507.2	493.6	485.1	482.6	477.8	474.7
60°	483.8	463.8	453.3	445.8	440.8	441.4	435.8
62.5°	437.9	425.0	414.9	407.4	401.5	401.6	402.0
65°	373.0	363.0	355.5	353.0	349.3	344.9	346.2
67.5°	316.0	306.7	300.9	296.6	295.3	293.0	296.6
70°	275.2	268.3	264.0	260.2	259.0	259.6	262.8
72.5°	237.8	233.0	230.1	228.4	225.6	225.8	227.8
75°	186.8	183.1	180.5	178.7	178.1	178.1	178.1
77.5°	137.2	136.3	135.2	132.5	132.6	133.3	133.5
80°	108.4	106.5	105.8	104.6	102.7	101.5	104.6
82.5°	81.0	79.1	78.4	78.2	75.3	75.1	77.7
85°	43.6	41.7	42.3	41.7	41.7	41.1	41.1
87.5°	17.8	17.3	17.0	17.5	17.0	16.6	17.6
90°	11.7	12.2	13.1	12.7	13.1	13.5	13.1
92.5°	30.2	26.7	24.3	23.5	22.1	22.6	21.8
95°	110.3	86.3	70.0	61.5	57.4	54.2	52.4
97.5°	324.8	266.5	212.5	179.1	158.8	146.6	142.7
100°	496.1	443.2	379.1	333.4	300.5	282.9	283.3
102.5°	573.9	543.0	502.3	466.8	440.7	426.0	415.6
105°	632.6	641.2	629.4	608.6	591.4	577.0	574.7
107.5°	625.2	664.7	680.8	681.2	675.4	670.5	666.4
110°	600.9	657.9	689.5	702.2	705.8	704.9	703.9



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	569.1	633.0	673.6	696.7	708.0	711.4	711.5
115°	518.2	584.7	633.9	667.8	687.7	696.7	699.0
117.5°	475.2	534.9	584.9	620.2	642.9	656.0	659.0
120°	451.4	505.6	551.3	586.9	612.3	623.1	625.8
122.5°	432.2	482.4	524.8	556.6	579.3	591.3	594.7
125°	408.4	451.9	488.0	516.9	536.8	548.1	551.3
127.5°	387.6	426.7	459.6	485.4	502.3	512.5	515.5
130°	374.5	411.1	441.9	465.9	482.1	491.6	495.2
132.5°	362.3	396.3	425.6	448.1	464.4	472.8	475.3
135°	344.8	374.1	399.9	422.0	435.5	443.7	446.9
137.5°	327.9	353.2	375.5	394.1	407.8	414.7	416.8
140°	318.1	339.8	359.2	376.4	389.0	396.2	395.8
142.5°	308.7	327.5	344.4	359.0	370.3	376.8	376.3
145°	296.4	310.9	324.0	335.3	344.8	348.4	349.3
147.5°	287.2	299.0	308.2	316.8	323.2	326.7	327.0
150°	281.5	291.0	299.6	306.3	311.3	314.0	314.0
152.5°	276.1	284.5	291.6	296.9	301.6	303.2	303.2
155°	268.4	275.2	280.6	284.6	288.3	289.1	289.6
157.5°	260.9	266.2	270.4	273.9	276.6	277.3	277.3
160°	256.2	260.7	263.9	267.0	269.7	269.7	269.3
162.5°	251.1	255.3	258.1	260.2	262.5	262.5	262.1
165°	244.0	247.2	249.4	251.2	253.0	252.5	252.5
167.5°	238.4	240.3	241.9	242.7	244.0	243.5	243.5
170°	234.5	236.3	237.2	237.7	238.6	238.1	238.1
172.5°	231.2	232.7	233.2	233.3	234.2	233.5	233.1
175°	226.8	227.8	227.8	227.8	228.1	227.8	227.3
177.5°	224.3	224.7	224.7	224.3	224.7	223.9	223.9
180°	223.2	223.2	223.2	223.2	223.2	223.2	223.2

(END OF REPORT)